



# PUBLIC NOTICE

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## FCC ANNOUNCES WORKSHOP ON NETWORK RESILIENCY TO BE HELD FEBRUARY 6, 2013, AT BROOKLYN LAW SCHOOL

On February 6, 2013, Federal Communications Commission (FCC or Commission) staff will convene a workshop on network resiliency at Brooklyn Law School at the Forchelli Center, located in Feil Hall, 205 State Street, Brooklyn, NY 11021. The workshop will feature presentations from engineering faculty, industry researchers and network engineers addressing topics relevant to the Commission's ongoing examination of network resiliency in the wake of Superstorm Sandy and other major storms.

The workshop will consist of three panels: The first panel will address questions related to the overall infrastructure, the impact of climate change on the frequency and severity of future storms, and on how to measure the effect of natural and man-made disasters on the communications infrastructure in real time. The second panel will address how to improve the resiliency of the wired access networks and the Internet backbone. The third panel will focus on wireless networks, first responders and social networks.

A tentative agenda for the workshop (subject to change) is provided below.

**10:00 AM – 10:30 AM:** Opening Remarks

**10:30 AM – 12:00 PM:** Panel #1: Infrastructure and Measurements

### Presentations

- John Heidemann (University of Southern California)  
*Third-Party Measurement of Network Outages in Hurricane Sandy*
- Alexis Kwasinski (The University of Texas at Austin)  
*Lessons from Field Damage Assessments about Communication Networks Power Supply and Infrastructure Performance during Natural Disasters with a focus on Hurricane Sandy*
- Emile Aben (RIPE Network Coordination Centre, The Netherlands); Alistair King (Cooperative Association for Internet Data Analysis (CAIDA), University of California, San Diego (UCSD)); Karyn Benson (CAIDA/UCSD); Young S. Hyun (CAIDA/UCSD); Alberto Dainotti (CAIDA/UCSD); Kimberly Claffy (CAIDA/UCSD)  
*Lessons learned by "measuring" the Internet during/after the Sandy storm*

- Kang-Won Lee (IBM Research, USA); Ho Yin Starsky Wong (IBM T.J. Watson Research Center, USA)  
*TSCOPE: Real-time Mobile Data Collection Technology Using Spatiotemporal Data Casting*
- Jennifer Rexford (Princeton University)  
*Lessons Learned from the 9/11 Attacks*
- Doug Riecken (Columbia University)  
*Smart grid*

**1:00 PM – 2:30 PM:**

Panel #2: Backbone and Wireline Access Resiliency

Presentations

- Biswanath Mukherjee (University of California, Davis)  
*Network Adaptability from Disaster Disruptions and Cascading Failures*
- Gil Zussman (Columbia University)  
*The Vulnerability of Fiber Networks and Power Grids to Geographically Correlated Failures*
- James P. G. Sterbenz (University of Kansas and Lancaster University (UK))  
*Diverse Network Infrastructure for Resilience and Rapid Recovery from Large-Scale Disasters*
- Shivendra Panwar (Polytechnic Institute of New York University)  
*Building Robust Cellular Networks*
- Peter Vetter (Alcatel-Lucent)  
*FTTH technology in the Aftermath of Sandy*

**3:00 PM – 4:30 PM:**

Panel #3: Wireless Networks, First Responders, Social Networks

Presentations

- Art Botterell (Carnegie Mellon University)  
*Managing Interoperability: What Happens When We Succeed?*
- Bob Iannucci (Carnegie Mellon University and RAI Laboratory, LLC)  
*Survivable Social Network*
- Theodore Rappaport (Polytechnic Institute of New York University and New York University)

*Loss of power and communication: A first-hand account*

- John Thomas (Sprint)  
*Minimizing the Risk of Communication Failure*
- Roch Guérin (University of Pennsylvania)  
*Leveraging Diversity for Resiliency*
- Klaus Jacob (Columbia University)  
*Climate projections*
- Georgia Bullen (New America Foundation, Open Technology Institute)  
*Case Study: Red Hook Initiative WiFi and Tidepools*

This event is open to the public, although we encourage attendees to register in advance at <https://edas.info/web/fcc-nr2013/registration.html> (You will need to create an account in order to register). Individuals attending the event in person must sign in with security personnel at Feil Hall before proceeding to the Forchelli Center. The FCC will attempt to accommodate as many attendees as possible; however, admittance will be limited to seating availability. Individuals may also register to participate via WebEx, at <https://fccevents.webex.com/fccevents/onstage/g.php?t=a&d=997318427>. In addition, coverage of the meeting will be streamed live over the Internet at <http://www.livestream.com/internetsocietychapters>. Open captioning will be provided for this event. Other reasonable accommodations for people with disabilities are available upon request. Requests for such accommodations should be submitted via e-mail to [fcc504@fcc.gov](mailto:fcc504@fcc.gov) or by calling the Consumer & Governmental Affairs Bureau at (202) 418-0530 (voice), (202) 418-0432 (tty). Such requests should include a detailed description of the accommodation needed. In addition, please include a way the FCC can contact you if it needs more information. Please allow as much advance notice as possible; last-minute requests will be accepted, but may be impossible to fill.

We also take this opportunity to remind the public that presentations to decision-making personnel—including those that address network reliability and resiliency in the wake of Superstorm Sandy—that go to the merits or outcome of the Commission’s pending permit-but-disclose proceeding regarding network reliability and resiliency, *see Reliability and Continuity of Communications Networks, Including Broadband Technologies*, Notice of Inquiry, 26 FCC Rcd 5614 (2011), must comply with the Commission’s *ex parte* rules, *see, e.g.,* 47 C.F.R. § 1.1200 *et seq.* The panelists’ presentations and related materials will be entered into the public docket associated with this proceeding, PS Docket 11-60.

For additional information about the meeting, please contact Brian Hurley, Public Safety and Homeland Security Bureau, at (202) 418-2220 or [brian.hurley@fcc.gov](mailto:brian.hurley@fcc.gov).

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